

EXPERIMENTAL FACILITIES DIVISION

L1120 Facility Hazard Analysis

The purpose of this form is to serve as a summary of facility characteristics, recognized hazards, implemented hazard controls, pertinent sources of information, and incident reporting contacts.

Scope of work conducted in this facility: To perform precision movement measurements and assembly of X-ray apparatus.

Laboratory equipment and hazardous materials associated with this facility:

Class I & II lasers
Portable hand-held tools
Motorized stages
PZT-5
Lead bricks
Copper/glidcap

Vacuum chambers
Clean room
Telescope
LN-2
Aluminum
Tungsten

Compressed air
Ladder
Microscope
Optical components
Wood & steel stock
Organic solvents

Hazards associated with this facility:

Chemical exposure
High pressure

lead exposure
Eye hazard from laser light

Skin burns from cryogenic use
Electrical shock hazard (high > voltage : PZT-5 and lasers)

Hazard controls implemented within this facility :

Engineered Controls
Local exhaust system

Procedural Controls
Micromotion measurement
Cleanroom handling of 05 UHV > components
Laser measurement
Microscope alignment

PPE
Chemical-resistant gloves
Safety glasses

Relevant ESH manual chapters that may be associated with this facility:

- 1) Ch. 4.3 – Laboratory & Chemical Safety
- 2) Ch. 6.2 – Laser Safety
- 3) Ch. 7.12 – Safe Use of Tools
- 4) Ch. 9.1 – Electrical Safety

Pertinent safety training courses that may be associated with this facility:

- 1) ESH121: Low-Power Laser Safety
- 2) ESH141: Portable Hand & Power Tool Safety
- 3) ESH170: OSHA Lead Standard Orientation
- 4) ESH371: Electrical Safety Training - General

Note: This is not intended to be an all-inclusive list of training that is required to work within this facility. The authoritative record of required training is depicted by the individual's JHQ.

Incident reporting contacts :

****Dial 911 in an emergency****

Lab Safety Captain:
Group Leader:
ES&H Coordinator:

Deming Shu
Deming Shu
Jeff Alicz

Extension: 2-4684
Extension: 2-4684
Extension: 2-9525

Facility hazard analysis completed by: _____
Lab Safety Captain or designee Date

Reviewed and approved by: _____
ES&H Coordinator Date

Line Management Date

This hazard analysis must be reviewed and updated accordingly on an annual basis or whenever conditions change. Once

approved, this hazard analysis must then be posted in a conspicuous space within the facility.
